

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number: 13-207

PROJECT INFORMATION

Project Title: 1019 Rebuild

Region and Game Management Unit: Region 2, GMU 9

Local Habitat Partnership Committee (LHPC):

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Was the project presented to the LHPC?

YES ☐ NO ☒

Has this project been submitted in previous years? YES ☐ NO ☒

If Yes, was it funded? YES ☐ NO ☐ → **HPC Project #:**

Project Type: Water Development

Brief Project Summary: Water Development in the Upper Basin in GMU 9.

Big Game Wildlife Species to Benefit: The Big Game species to benefit are elk, mule deer, black bear, and turkey. The area has current population of all four species, and has potential of sustaining larger population if more reliable water sources are created. By increasing water sources and spreading out the water availability the elk herd can be spread out mitigating the impact on the habitat.

Implementation Schedule (Month/Day/Year):

Project Start Date: August 1, 2014

Project End Date: October 1, 2014

Environmental Compliance:

NEPA Completed: YES ☒ No ☐ N/A ☐

Projected Completion Date: May 2013

State Historic Preservation Office - Archaeological Clearance:

YES ☒ No ☐ N/A ☐

Projected Completion Date: May 2013

Arizona Game and Fish Department EA Checklist: N/A ☐

To be Completed by: Colby Walton/ Joe Currie

Projected Completion Date: March of 2014

PROJECT FUNDING

Special Big Game License Tag Funds Requested: \$ 47,000

Cost Share or Matching Funds: \$ 12,000

Total Project Costs: \$ 59,000.00

PARTICIPANT INFORMATION

Applicant (please print):

Colby Walton

Address: 3500 Lake Mary Road,

Flagstaff AZ 86001

E-mail: CWalton@azgfd.gov

Telephone: (928)864-9384		Date: 4/08/2013
AGFD Contact and Phone No. (If applicant is not AGFD personnel):		
Project has been coordinated with: Joe Currie		

NEED STATEMENT – PROBLEM ANALYSIS: Game Management Unit 9 has no perennial streams, rivers, lakes, or springs. Natural waters consist of small ephemeral water bodies that develop in low-lying areas where seasonal runoff collects. The purpose and need of the actions are to increase the availability of more reliable and larger capacity wildlife water sources throughout Game Management Unit 9. These actions are also designed to reduce impacts to vegetation and soil resources around existing water developments by better distributing elk habitat use patterns throughout the district.

In addition the proposed plan would repair and improve an existing water development (1019) that was damaged by heavy snowfall during the 2010 winter. The apron collapsed into the storage tank, and as a result the storage tank has developed a leak and the efficiency of water collection has decreased. The specific location of the water catchment will benefit elk, mule deer, black bear, and turkey. By creating a more efficient larger capacity water development during a dry year it would significantly reduce water hauling costs, and serve as a reliable water source in critical summer range for the species listed above.

PROJECT OBJECTIVES:

- Increase water availability
- Increase water storage capability
- Decreasing water hauling cost
- Distributing elk habitat use patterns throughout the district

PROJECT DESCRIPTION AND STRATEGIES:

The proposed plan would consist of AZGFD Development Branch rebuilding Game and Fish water development 1019. Currently 1019 has a one storage tank with an approximate capacity of 10,000 gallons. Due to the heavy snowfall the apron structure on top of the storage tank has collapsed into the tank, resulting in a loss of efficiency and a slow leak. The proposed plan would increase the storage capacity to approximately 21,000 gallons, and would increase the water collection efficiency of the development. This proposal would also replace the wire exclosure fence with piperail fencing, and replace the current small walk up drinker with a large elk walk in drinker.

PROJECT LOCATION: Township 29 N. Range 5 E. Section 24, GPS coordinates N 35°58.150 W 111°54.264

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name): National Forest – Tusayan Ranger District

IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?
YES[] NO[]

HABITAT DESCRIPTION: Ponderosa pine woodland, approximate elevation 6,700 ft

ITEMIZED USE OF FUNDS:

AZGFD Development crew will complete the installation of the project. Ed Jahrke estimated that \$10,000 in kind labor cost match. In addition, Wildlife Manager Colby Walton has dedicated 10 days to project development, field trips, coordination, and finalization, which is matching in kind labor of \$1200.00.

Special Big Game License Tag Funds

\$47,000.00

Cost Share or Matching Funds

Arizona Game and Fish contribution \$12,000 dollars

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION: The USFS Tusayan Ranger District is cooperating in this effort with AZGFD to build water catchments. AZGFD would seek funding through the AZGFD HPC process and other grant funding opportunities. All future maintenance and repair of the newly constructed catchments will become the responsibility of the AZGFD.

PROJECT MONITORING PLAN: Department personnel will monitor the water levels in the catchments, amount of use by wildlife, maintenance needs and report to the Department's development branch if any maintenance needs arise or if water needs to be hauled. The Unit Wildlife Manager will be the primary person responsible for monitoring.

PROJECT MAINTENANCE: The Department's Development Branch will be responsible for ensuring maintenance is done. This may be accomplished by Department personnel, contractors or by volunteers.

PROJECT COMPLETION REPORT TO BE FILED BY: Wildlife Manager: Colby Walton

WATER DEVELOPMENT PROJECTS (*see attached worksheet*):

ARIZONA GAME AND FISH DEPARTMENT

WATER DEVELOPMENT WORKSHEET

PROJECT NAME: 1019 Brushy

1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** no

2) **Please list the Development Branch personnel and date coordinated with for this project.**

Joe Currie coordinated in June of 2013, and Ed Jahrke in Aug of 2013

3) **What is the estimated annual inches of precipitation for the area? (mark one)**
☐2-4 ☐4-6 ☐6-8 ☐8-10 ☒10-12 ☐12-14 ☐14-16 ☐ >16

4) **Is there a perennial water source available to big game within four miles of this project?**
YES☒ (please complete #5 below) NO☐ (skip #5 below)

5) **For the accessible, perennial water source nearest this project:**

Name of water source: Hull Tank

Type of water source (catchment, spring, dirt tank): dirt tank

Ownership of water source: National Forest Service

Distance in miles from project: 2 miles

6) **Is the target wildlife species a result of transplant efforts?** YES☐ NO☒

7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.** National Forest-Tusayan Ranger District

8) Please provide the following information about access to the proposed site:

Type of access (mark one): ☒ 2x4 vehicles ☐ 4x4 only ☐ foot only**

**If foot access only: Distance in miles: _____ Approximate hiking time: _____

-- Does access to this site require crossing private or tribal lands? YES ☐ NO ☒

-- Please describe any restrictions to public access:

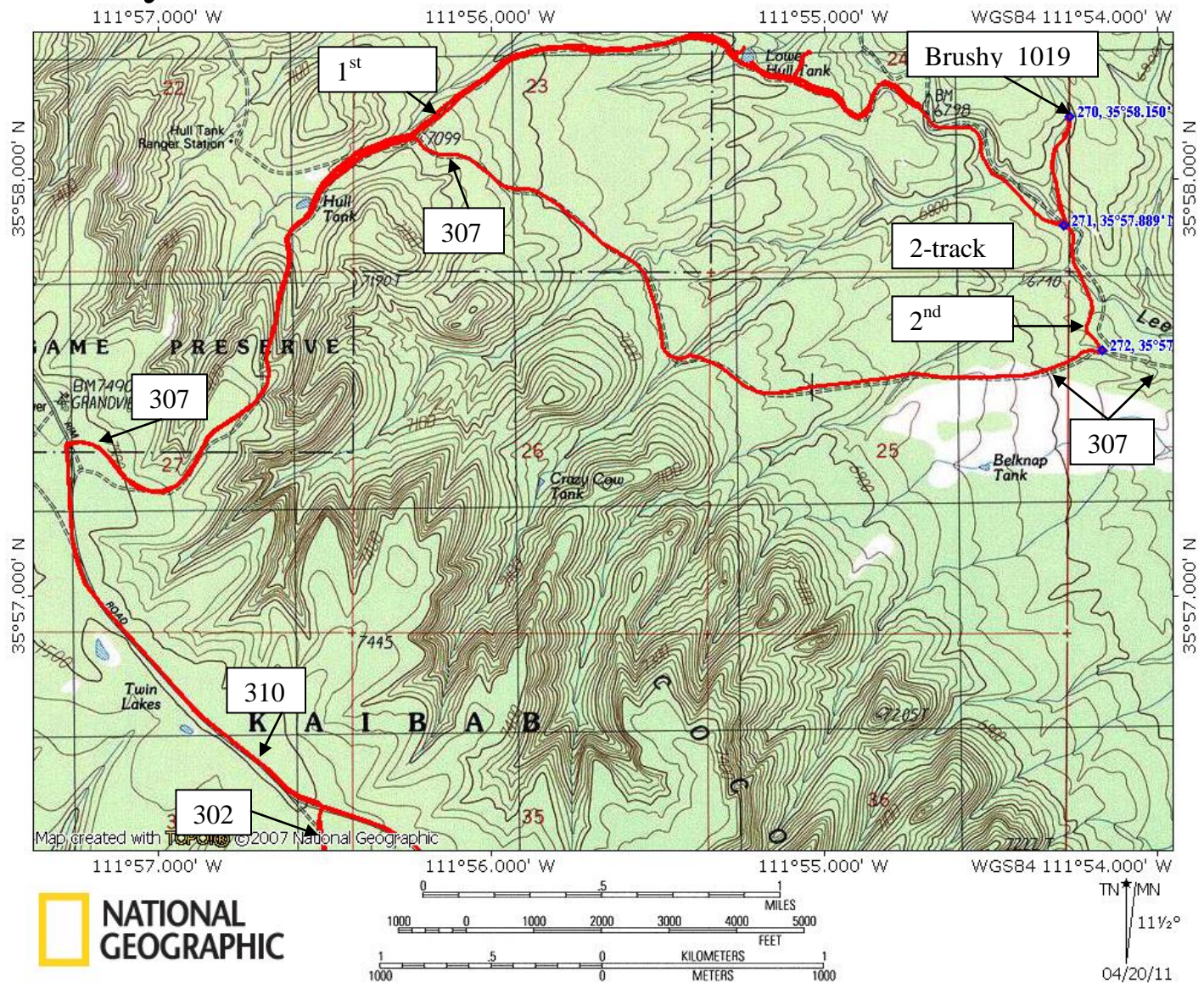
9) Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.

4' deep x 4" wide Polyethylene Walk-in Trough (currently out to bid)	\$3,934.00
12 X 1,600 gallon Polyethylene Tanks (19,200)	unknown(est \$30,000)
48' x 36' Metal Frame and R-panel Apron	\$5,824.10
3" Schedule 80 PVC pipeline	\$ 3,000.00
180' x 160' x 170' x 90' heavy Duty Piperail Fence	\$3,607.65
Total =	\$46,365.75

10) Was a site visit completed? Yes ☒ No ☐

Site visit was completed with Joe Currie and Ed Jahrke from the Arizona Game and Fish Development Branch, along with Nick Larson Tusayan District Ranger, and Colby Walton Unit 9 WM. Additionally, Colby Walton visited the site with Neil Weintruab the Kaibab National Forest Archeologist.

Brushy Trick Tank 1019

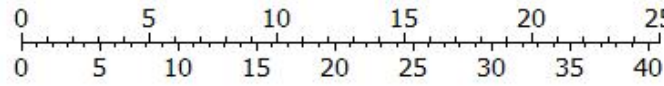
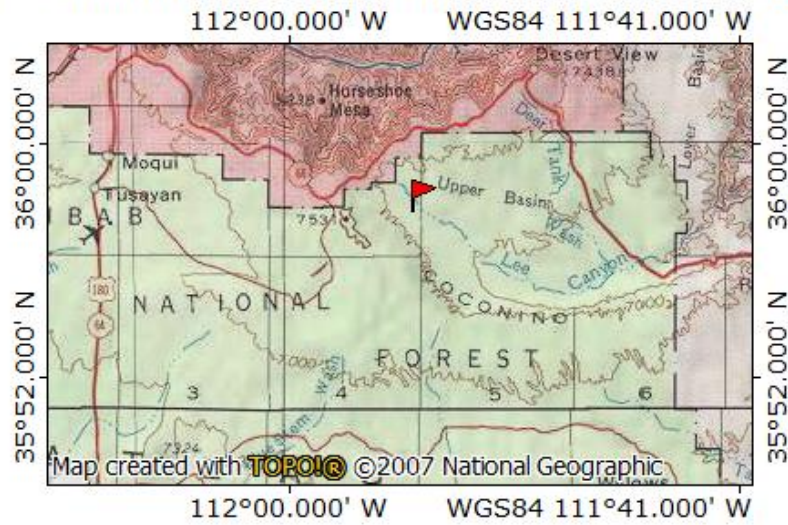


Directions to Brushy Trick Tank

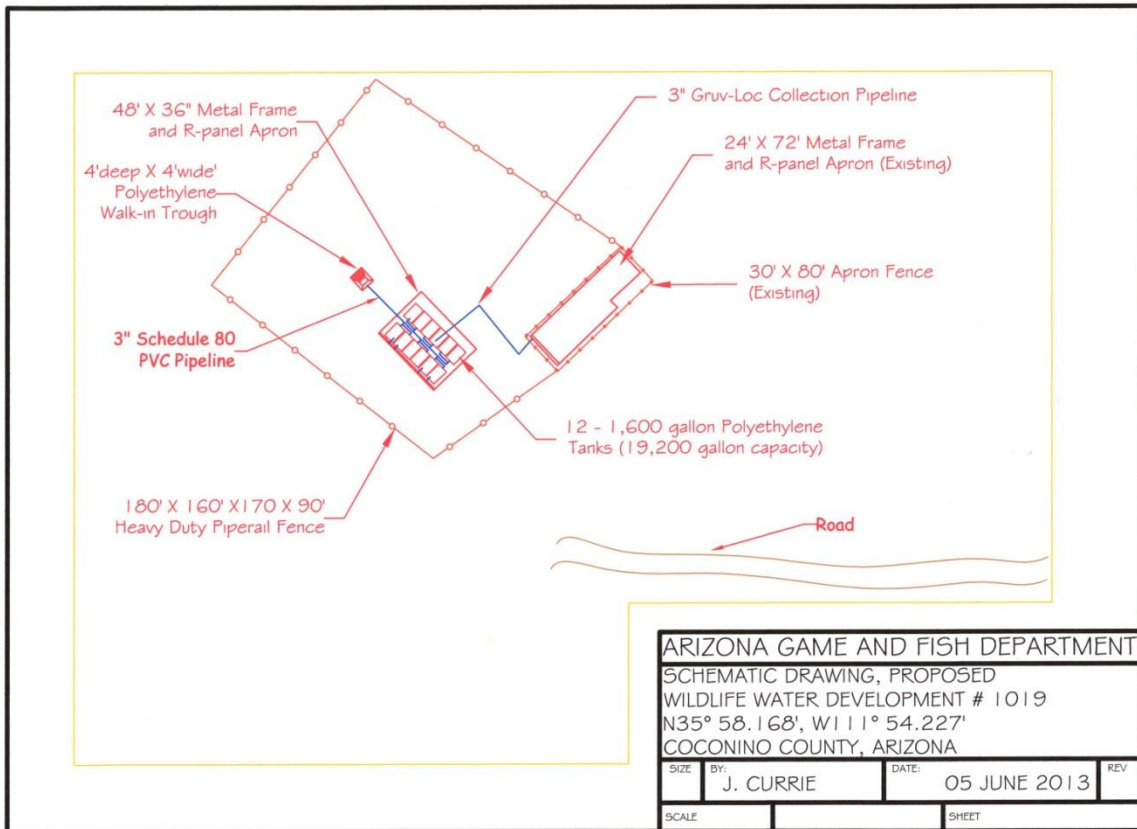
- From HWY 64 take FR 302 west 13.2 miles to FR 310
- Turn left (west) on FR 310 continue on FR 310 for 1.2 miles
- Then turn right (north) on FR 307
- In 2.7 miles FR 2803(**2805 on FS map**) will be on the right, do not turn continue for 1.0 miles and turn on the second FR 2803.
- Continue on 2803 for .3 miles
- Then turn right onto 2-track continue on 2-track for .2 miles to the catchment.

Coordinates N 35°58.150 W 111°54.264

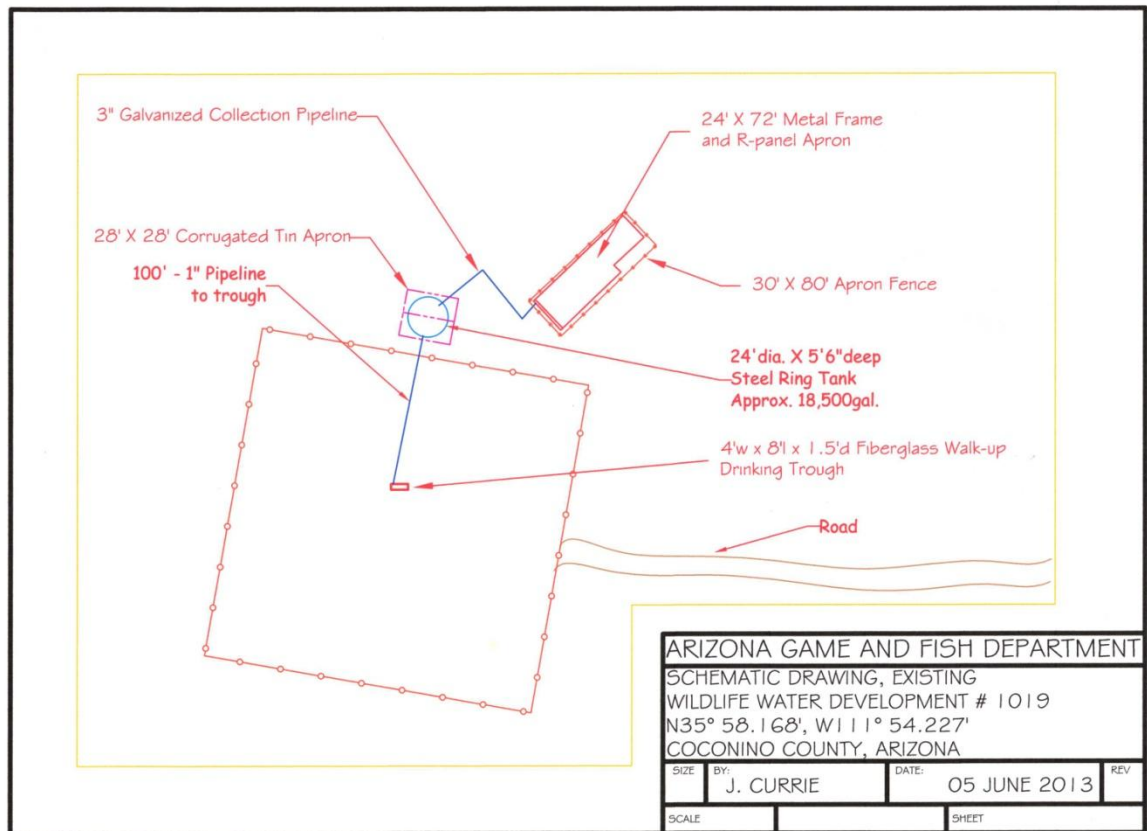
TOPO! map printed on 04/08/13 from "Untitled.tpo"



TN MN
11°
04/08/13



Proposed design above



Existing design above